ISSN 2324-254X

April 2017

MONTHLY NOTIFIABLE DISEASE SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by Public Health Service (PHS) staff at 08 May 2017. Changes made to EpiSurv data after this date will not be reflected in this report. The results presented may be updated and should be regarded as provisional.

Table of contents

1. Key notifiable disease trends

Giardiasis: 125 cases of giardiasis (120 confirmed and 5 under investigation) were notified in April 2017 compared to 144 cases notified during the same month of the previous year. Five hundred and forty-six cases have been notified in the year to date compared to 640 at the same time in the previous year. The highest numbers of cases reported in April were from Waitemata (17 cases), Counties Manukau (16 cases) and Canterbury (15 cases) DHBs. Among the cases for which risk factor information was recorded, 43.2% (19/44) had recreational contact with water, 36.6% (15/41) had contact with faecal matter or vomit, 34.1% (14/41) had consumed untreated water, and 32.6% (14/43) had contact with farm animals during the incubation period. Two finalised *Giardia* outbreaks (6 cases total) and one interim outbreak (case numbers yet to be determined) were created in April.

Hepatitis NOS: One case of hepatitis NOS (hepatitis delta) was notified in April 2017. The case was a male in the 40–49 years age group from Waitemata DHB.

Legionellosis: 11 cases of legionellosis (8 confirmed and 3 under investigation) were notified in April 2017 compared to 23 cases notified during the previous month, and 23 during the same month of the previous year. Cases were reported from Waitemata (4 cases), Bay of Plenty (3 cases), Counties Manukau (2 cases), Auckland and MidCentral (1 case each) DHBs. The *Legionella* species was identified for 10 cases as: *L. pneumophila* (6 cases) and *L. longbeachae* (4 cases).

Leptospirosis: 14 cases of leptospirosis (8 confirmed, 1 probable and 5 under investigation) were notified in April 2017 compared to eight cases notified during the same month of the previous year. The highest number of cases was reported from Waikato (4 cases) and Canterbury (3 cases) DHBs. Cases were reported in the 20–29 years, 60–69 years (4 cases each), 40–49 years (3 cases), 50–59 years (2 cases) and 30–39 years (1 case) age groups. Occupation was recorded for 71.4% (10/14) of cases. Of these, five were engaged in occupation previously identified as high risk exposure to *Leptospira* species: farmers or farm workers (4 cases) and veterinarian (1 case). Of the five cases that did not report a high-risk occupation (or had no occupation recorded), three reported contact with farm or wild animals and one had recreational water contact. One case did not have any risk factor information recorded.

Measles: One case of measles (still under investigation) was notified in April compared to 14 cases notified during the same month of the previous year. After further investigation, this case has since been found not to meet case criteria.

Mumps: 30 cases of mumps (29 confirmed and 1 under investigation) were notified in April 2017 compared with one case notified during the same month of the previous year (Figure 1). The cases were reported from Waitemata (19 cases), Counties Manukau (7 cases), Auckland, Waikato, Hutt Valley, and Canterbury DHBs (1 case each). Cases were in the 15–19 years (11 cases), 5–9 years (5 cases), 10–14 years, 30–39 years (4 cases each), 20–29 years (3 cases), 1–4 years (2 cases), and 60–69 years (1 case) age groups. Twelve cases were recorded as being vaccinated against mumps of which seven cases had received two doses of the vaccine and four cases had received just one dose. One further case had been vaccinated, but no dose information was available.

Ross River virus infection: One case of Ross River virus infection was notified in April 2017. The case was a male in the 40–49 years age group from Bay of Plenty DHB. The case reported overseas travel to Australia during the incubation period for the disease.

Typhoid fever: Nineteen cases of typhoid fever (17 confirmed, 1 probable and 1 under investigation) were notified in April 2017 compared to five cases notified during the same month of the previous year (Figure 2). Cases were reported from Counties Manukau (8 cases), Auckland (5 cases), Waitemata, Lakes (2 cases each), Waikato and Canterbury (1 case each) DHBs. Cases were in the 40–49 years (6 cases), 1–4 years, 15–19 years (3 cases each), 20–29 years, 30–39 years (2 cases each), 5–9 years, 10–14 years, and 70 and over (1 case each) age groups. Fourteen cases were hospitalised. Eighty-nine percent (17/19) of cases were lab confirmed and the most common phage types identified were *Salmonella* Typhi E1a (14 cases). Overseas travel information was recorded for all cases, of which six cases reported travelling during the incubation period for the disease. Countries visited were Samoa (3 cases), India (2 cases), and Indonesia (1 case each). One interim *S*. Typhi outbreak (case numbers yet to be determined) was created in April.

VTEC/STEC infection: 71 cases of VTEC/STEC infection (59 confirmed and 12 under investigation) were notified in April 2017 compared to 53 cases confirmed during the same month of the previous year. The 12-month rate for the period ending 30 April 2017 (9.2 cases per 100,000 population) was slightly lower than rate for the equivalent period for the previous year (9.4 cases per 100,000 population). The highest numbers of cases were reported from Northland, Southern (14 cases each), Waitemata (10 cases), and Waikato (7 cases) DHBs. Cases ranged in age from nine months to 88 years, with the highest number of cases in the 1–4 years (17 cases). Nineteen cases were hospitalised. Fifty cases have been confirmed by the Enteric Reference Laboratory as being infected with VTEC/STEC, and of these the serotype was identified as *Escherichia coli* O157:H7 (32 cases) and non-O157 (17 cases). The serotype was undetermined in one case but verocytotoxin was detected by PCR. Of the cases for which risk factor information was recorded, 61.9% (26/42) had contact with animals, 32.4% (12/37) had recreational contact with water, 21.1% (8/38) had contact with a person with similar symptoms, and 17.6% (6/34) had contact with children in nappies during the incubation periods for the disease. One interim VTEC/STEC infection outbreak was created in April (case numbers yet to be determined).

Zika virus infection: 2 confirmed cases of Zika virus infection were notified in April 2017. Cases were reported in the 10–14 years and 60–69 years (1 case each) age groups. Both cases reported overseas travel during the incubation period to Fiji.

2. Outbreaks

During April 2017, a total of 23 outbreaks (6 final and 17 interim) were created in EpiSurv (Table 1 and Table 2). Fifteen (65.2%) were outbreaks of acute gastroenteritis (3 finalised and 12 interim) involving 119 cases in total. This compares with 31 acute gastroenteritis outbreaks involving 531 cases in total created during the same month of the previous year. Of the 15 acute gastroenteritis outbreaks, the pathogens were recorded as norovirus (2 outbreaks). The most commonly reported mode of transmission in acute gastroenteritis outbreaks (26.7%, 4/15) was person-to-person (4 primary). Of the outbreaks that had an exposure setting recorded (80.0%, 12/15) the most commonly reported setting were long term care facilities (6 outbreaks) and childcare centres (4 outbreaks).

Table 1. Summary of final outbreaks created in EpiSurv during April 2017

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
Gastroenteritis[1]	Waikato, MidCentral	2	21
Giardia	Counties Manukau, Lakes	2	6
Influenza B virus	Wairarapa	1	8
Norovirus	Bay of Plenty	1	9
Total		**6**	**44**

[1] Includes outbreak reported to PHSs prior to April 2017: gastroenteritis (1) reported in March 2017.

Table 2. Summary of interim outbreaks created in EpiSurv during April 2017

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
Bordetella pertussis[1]	Northland, Capital & Coast	2	-
Gastroenteritis[1]	Waitemata, Auckland, Bay of Plenty, Hutt Valley, Capital & Coast, Canterbury, Southern	11	46
Giardia	Bay of Plenty	1	2
Norovirus	Whanganui	1	43
Salmonella	Southern	1	2
VTEC/STEC infection[1]	Waitemata	1	-
Total		**17**	**93**

[1] Interim outbreak(s) where total number of cases had not been completed.

3. Deaths from notifiable diseases

One death, where the primary cause of death was a notifiable disease, was reported in April 2017 (Table 3).

Table 3. Summary of deaths from notifiable diseases reported during April 2017

Disease	District health board	Age group (years)
Meningococcal Disease	Counties Manukau	70+

4. Trends in selected diseases to April 2017

Figure 1. Mumps virus notifications by month, January 2010–April 2017

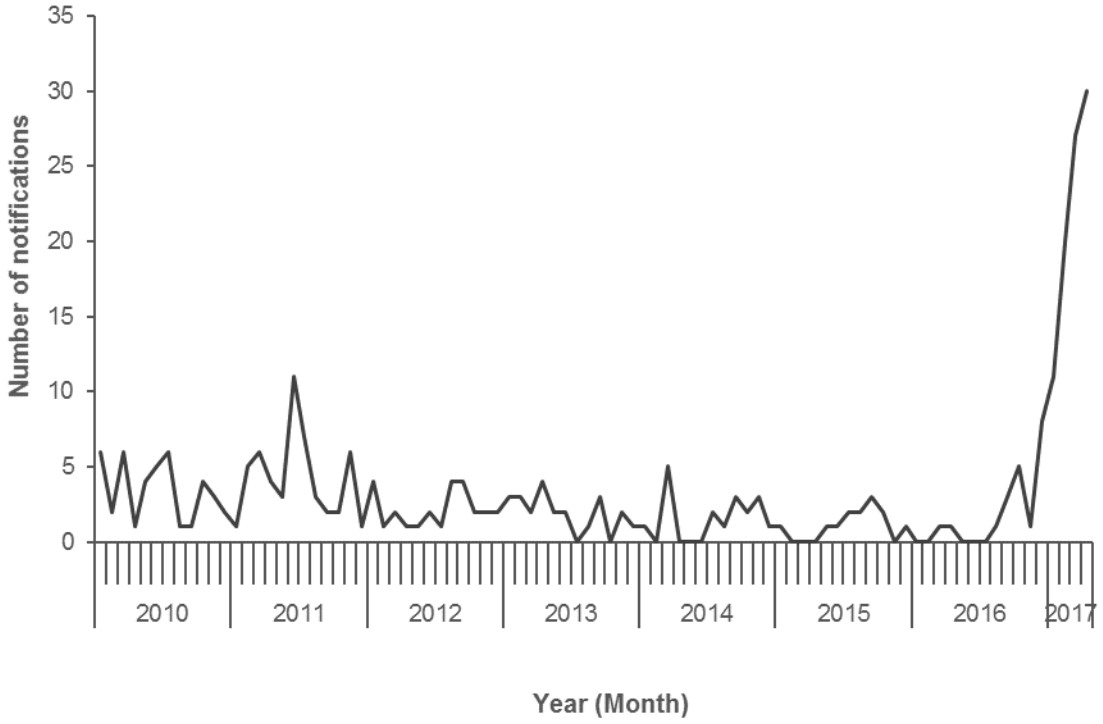
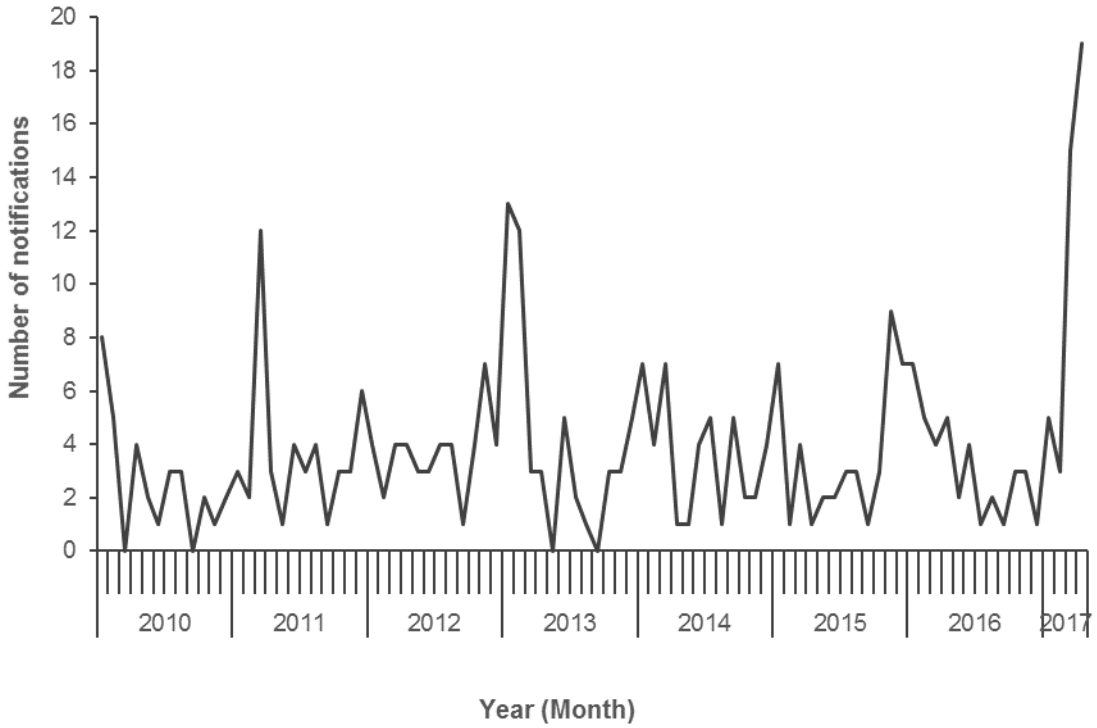


Figure 2. Typhoid fever notifications by month, January 2010–April 2017



5. Data tables

National Notifiable Disease Surveillance Data April 2017

Disease	Current Year - 2017[1]			Previous Year - 2016		
	April 2017 Cases	Cumulative total since 1 January	Current 12 Month Rate[2]	April 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate[2]
Campylobacteriosis	372	1973	159.2	364	1956	137.1
Cryptosporidiosis	58	199	22.6	65	199	17.1
Dengue fever	8	37	3	8	85	2.9
Gastroenteritis[3]	25	115	9.8	43	168	11
Giardiasis	125	546	32.4	144	640	35.3
Haemophilus influenzae type b	0	0	0	0	1	0.1
Hepatitis A	2	21	1	1	9	0.8
Hepatitis B[4]	5	14	0.9	3	8	0.7
Hepatitis C[4]	3	10	0.6	3	15	0.8
Invasive pneumococcal disease	29	105	10.5	28	88	9.8
Legionellosis	11	98	5.1	23	107	6.6
Leptospirosis	14	49	2.4	8	20	1.2
Listeriosis	1	4	0.5	5	16	0.8
Malaria	2	14	0.6	1	11	0.8
Measles	1	11	2	14	20	0.6
Meningococcal disease	5	18	1.7	2	12	1.5
Mumps	30	87	2.2	1	2	0.3
Paratyphoid fever	0	10	0.6	5	16	0.7
Pertussis	73	390	23.8	77	365	27.3
Rheumatic fever[5]	9	49	3.1	14	42	2.7
Rickettsial disease	0	1	0.1	0	2	0.2
Rubella	0	0	0	0	2	0
Salmonellosis	109	428	22.7	107	454	23
Shigellosis	15	71	4.1	11	52	2.4
Tuberculosis disease	30	112	6.6	26	98	6.3
Typhoid fever	19	42	1.3	5	21	1.1
VTEC/STEC infection	71	233	9.2	53	218	9.4
Yersiniosis	50	267	19.2	77	224	15.1

[1] These data are provisional.

[2] Rate is based on the cumulative total for the current year (12 months up to and including April 2017) or the previous year (12 months up to and including April 2016), expressed as cases per 100 000. This includes cases still under investigation.

[3] Cases of gastroenteritis from a common source or foodborne intoxication.

[4] Only acute cases of this disease are currently notifiable.

[5] Numbers are based on report date. This may not be a good indicator of newly incident cases as a high proportion of notifications have substantial reporting delays.

Other notifiable infectious disease reported in April: Ross River virus infection (1) , Zika virus (2)

Notifiable Disease Surveillance Data by District Health Board April 2017

Cases[1] and current rate[2] for April 2017 by District Health Board[3]																					
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairawhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Southern
Campylobacteriosis	Cases	17	44	29	26	23	8	19	3	11	16	7	16	9	22	3	14	2	38	7	58
	Rate	159.3	121.9	101.1	93.4	134.9	135.1	112.5	152.7	195.2	817.8	174.6	179.1	132.3	139.3	160.6	127.7	178.5	147	238.2	193.8
Cryptosporidiosis	Cases	2	11	3	14	3	0	1	1	3	0	0	0	2	2	0	1	0	12	2	1
	Rate	57.2	23.4	16.6	20.8	31	17.8	7.5	27.2	41.1	12.4	33.3	27.6	9.6	19.6	41.3	19.1	12.3	22.2	27	19.1
Dengue fever	Cases	0	2	2	0	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	1.2	2.9	3	3.2	3.5	2.8	6.6	0	6	5.6	0	2.3	2.7	3.6	2.3	3.4	0	2.6	1.7	1.3
Gastroenteritis	Cases	2	2	4	1	0	0	1	0	0	0	2	1	3	4	0	0	0	5	0	0
	Rate	10.5	8.1	16.4	5.4	1.5	9.4	10.6	0	6	1.9	22.2	21.8	20.6	20.5	16.1	1.4	27.7	9.8	3.4	4.1
Giardiasis	Cases	9	17	11	16	12	4	4	4	3	4	3	2	3	4	0	0	1	15	2	11
	Rate	35	29.5	30.8	35.8	38.3	50.7	32.6	110.9	30.8	40.3	30.2	18.9	26	37.5	16.1	26.6	24.6	25.8	28.7	28.5
Haemophilus influenzae type b	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis A	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0.6	1.4	1.2	2.4	0.3	0	0	0	0.9	0	0	0	0.7	1.6	0	2.7	3.1	0.6	0	0.9
Hepatitis B	Cases	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.3	1.6	1.9	1.5	0	0.4	0	0.9	1.9	0	0	0	0.7	2.3	0	0	0.9	0	0.3
Hepatitis C	Cases	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	Rate	1.2	0.2	0.2	0	0	0.9	0	0	1.7	1.2	0	0	2.1	0.7	0	2	0	1.1	0	0.9
Invasive pneumococcal	Cases	1	3	2	7	2	1	2	0	0	0	0	1	1	4	0	1	0	2	1	1
	Rate	18.7	10.3	10.3	16.3	8.5	19.7	17.6	20.9	1.7	8.7	7.9	4	6.2	8.2	6.9	9.6	6.2	8	16.9	7.2
Legionellosis	Cases	0	4	1	2	0	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	13.4	5.8	3.7	4.7	2.8	4.7	10.1	0	2.6	1.2	0	1.7	4.8	1.3	4.6	9.6	15.4	8.2	5.1	3.4
Leptospirosis	Cases	0	1	0	0	4	0	0	0	0	1	1	1	0	0	1	1	0	3	1	0
	Rate	7.6	0.8	0.2	0.4	8	0.9	2.2	2.1	4.3	7.4	6.3	4.6	0.7	0	6.9	2.7	9.2	0.9	1.7	2.5
Listeriosis	Cases	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.4	0.7	0.3	0	1.3	2.1	0	0.6	0	0	1.4	0.7	0	0.7	0	0.6	0	0.6
Malaria	Cases	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.2	0.7	1.2	0.6	0.5	0	1.3	0	0.9	0.6	0	0	0	0.7	0	1.4	0	0.4	0	0.3
Measles	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	3.5	0.5	0.6	0.2	10.8	0	0	0	0	0	0	16.1	0.7	1.6	0	2	0	0	0	0.3
Meningococcal disease	Cases	0	0	0	2	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0
	Rate	1.8	1	1.2	2.4	2	0.9	3.1	2.1	0	1.2	0	1.1	0	2.6	2.3	0.7	3.1	0.6	0	5.6
Mumps	Cases	0	19	1	7	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
	Rate	2.9	8.6	1.6	3.9	1	2.8	0	0	0.9	0	0	0	1.4	1	0	0	3.1	0.9	0	0.3
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.7	1.8	0.6	0	0	0	0	0.9	0.6	0	1.1	0.7	0.3	0	0.7	0	0.2	0	0.6
Pertussis	Cases	1	5	9	6	3	0	3	0	1	2	1	0	5	13	0	7	1	5	0	11
	Rate	7	14.7	11	8.4	25	51.6	25.1	12.6	89.9	11.8	15.9	17.2	18.5	42.4	0	32.8	9.2	41.9	15.2	29.5
Q fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever[4]	Cases	2	1	0	3	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	2.9	3.2	3.5	9	2.8	3.8	4.9	2.1	0.9	4.3	0	2.3	2.7	2.6	0	0.7	0	0.4	0	0
Rickettsial disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0.2	0.2	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0
Salmonellosis	Cases	6	7	7	11	21	3	5	3	3	2	1	5	2	4	1	2	0	15	1	10
	Rate	26.3	17.4	18.7	14.4	31.8	19.7	18.5	33.5	18	22.3	22.2	24.1	15.8	23.5	27.5	21.9	18.5	29.3	28.7	33.2
Shigellosis	Cases	0	2	5	5	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0
	Rate	2.9	6.3	6.5	9	3	1.9	4	8.4	0	2.5	1.6	1.1	2.7	3.9	0	1.4	0	1.7	0	2.8
Tuberculosis disease	Cases	0	5	7	5	1	0	0	0	2	1	0	1	0	1	0	2	1	3	0	1
	Rate	0.6	7.3	12.6	10.9	4	3.8	2.6	2.1	5.1	9.9	1.6	3.4	4.8	8.2	6.9	3.4	3.1	6.7	3.4	3.1
Typhoid fever	Cases	0	2	5	8	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0	0.8	4.3	3.2	0.5	2.8	0.4	0	0	0.6	1.6	0.6	0.7	0.3	0	0	0	0.4	0	0.6
Viral Haemorrhagic Fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VTEC/STEC infection	Cases	14	10	3	6	7	0	4	0	1	1	1	0	0	3	0	2	0	5	0	14
	Rate	32.1	11.2	5.7	11.4	11.5	10.3	6.6	0	10.3	7.4	9.5	2.9	0.7	2.6	2.3	6.8	6.2	2.6	16.9	21.6
Yersiniosis	Cases	1	11	7	5	1	4	2	0	0	1	0	1	0	6	0	0	0	7	2	2
	Rate	18.1	18.3	18.5	11.4	16	30	30.4	20.9	9.4	14.3	3.2	8	24	28	13.8	6.1	24.6	30.6	32.1	16.9

[1] These data are provisional.

[2] Current rate is based on the cumulative total for the 12 months up to and including April 2017 expressed as cases per 100 000. This includes cases still under investigation.

[3] Further data are available from the local Medical Officer of Health.

[4] Rates are based on report date. This may not be a good indicator of newly incident cases as a high proportion of notifications have substantial reporting delays.

Notifiable Disease Surveillance Data by District Health Board April 2017

Cases[1] and current rate[2] for April 2017 by District Health Board[3]

Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairawhiti	Taranaki	Hawke's Bay	Whanganui	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Southern
Campylobacteriosis	Cases	17	44	29	26	23	8	19	3	11	16	7	16	9	22	3	14	2	38	7	58
	Rate	159.3	121.9	101.1	93.4	134.9	135.1	112.5	152.7	195.2	817.8	174.6	179.1	132.3	139.3	160.6	127.7	178.5	147	238.2	193.8
Cryptosporidiosis	Cases	2	11	3	14	3	0	1	1	3	0	0	0	2	2	0	1	0	12	2	1
	Rate	57.2	23.4	16.6	20.8	31	17.8	7.5	27.2	41.1	12.4	33.3	27.6	9.6	19.6	41.3	19.1	12.3	22.2	27	19.1
Dengue fever	Cases	0	2	2	0	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	1.2	2.9	3	3.2	3.5	2.8	6.6	0	6	5.6	0	2.3	2.7	3.6	2.3	3.4	0	2.6	1.7	1.3
Gastroenteritis	Cases	2	2	4	1	0	0	1	0	0	0	2	1	3	4	0	0	0	5	0	0
	Rate	10.5	8.1	16.4	5.4	1.5	9.4	10.6	0	6	1.9	22.2	21.8	20.6	20.5	16.1	1.4	27.7	9.8	3.4	4.1
Giardiasis	Cases	9	17	11	16	12	4	4	4	3	4	3	2	3	4	0	0	1	15	2	11
	Rate	35	29.5	30.8	35.8	38.3	50.7	32.6	110.9	30.8	40.3	30.2	18.9	26	37.5	16.1	26.6	24.6	25.8	28.7	28.5
Haemophilus influenzae type b	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hepatitis A	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Rate	0.6	1.4	1.2	2.4	0.3	0	0	0	0.9	0	0	0	0.7	1.6	0	2.7	3.1	0.6	0	0.9
Hepatitis B	Cases	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.3	1.6	1.9	1.5	0	0.4	0	0.9	1.9	0	0	0	0.7	2.3	0	0	0.9	0	0.3
Hepatitis C	Cases	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	Rate	1.2	0.2	0.2	0	0	0.9	0	0	1.7	1.2	0	0	2.1	0.7	0	2	0	1.1	0	0.9
Invasive pneumococcal disease	Cases	1	3	2	7	2	1	2	0	0	0	0	1	1	4	0	1	0	2	1	1
	Rate	18.7	10.3	10.3	16.3	8.5	19.7	17.6	20.9	1.7	8.7	7.9	4	6.2	8.2	6.9	9.6	6.2	8	16.9	7.2
Legionellosis	Cases	0	4	1	2	0	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0
	Rate	13.4	5.8	3.7	4.7	2.8	4.7	10.1	0	2.6	1.2	0	1.7	4.8	1.3	4.6	9.6	15.4	8.2	5.1	3.4
Leptospirosis	Cases	0	1	0	0	4	0	0	0	0	1	1	1	0	0	1	1	0	3	1	0
	Rate	7.6	0.8	0.2	0.4	8	0.9	2.2	2.1	4.3	7.4	6.3	4.6	0.7	0	6.9	2.7	9.2	0.9	1.7	2.5
Listeriosis	Cases	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0.2	0.4	0.7	0.3	0	1.3	2.1	0	0.6	0	0	1.4	0.7	0	0.7	0	0.6	0	0.6
Malaria	Cases	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	1.2	0.7	1.2	0.6	0.5	0	1.3	0	0.9	0.6	0	0	0	0.7	0	1.4	0	0.4	0	0.3
Measles	Cases	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	3.5	0.5	0.6	0.2	10.8	0	0	0	0	0	0	16.1	0.7	1.6	0	2	0	0	0	0.3
Meningococcal disease	Cases	0	0	0	2	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0
	Rate	1.8	1	1.2	2.4	2	0.9	3.1	2.1	0	1.2	0	1.1	0	2.6	2.3	0.7	3.1	0.6	0	5.6
Mumps	Cases	0	19	1	7	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
	Rate	2.9	8.6	1.6	3.9	1	2.8	0	0	0.9	0	0	0	1.4	1	0	0	3.1	0.9	0	0.3
Paratyphoid fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0.7	1.8	0.6	0	0	0	0	0.9	0.6	0	1.1	0.7	0.3	0	0.7	0	0.2	0	0.6
Pertussis	Cases	1	5	9	6	3	0	3	0	1	2	1	0	5	13	0	7	1	5	0	11
	Rate	7	14.7	11	8.4	25	51.6	25.1	12.6	89.9	11.8	15.9	17.2	18.5	42.4	0	32.8	9.2	41.9	15.2	29.5
Q fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever[4]	Cases	2	1	0	3	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	2.9	3.2	3.5	9	2.8	3.8	4.9	2.1	0.9	4.3	0	2.3	2.7	2.6	0	0.7	0	0.4	0	0
Rickettsial disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0.2	0.2	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubella	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0
Salmonellosis	Cases	6	7	7	11	21	3	5	3	3	2	1	5	2	4	1	2	0	15	1	10
	Rate	26.3	17.4	18.7	14.4	31.8	19.7	18.5	33.5	18	22.3	22.2	24.1	15.8	23.5	27.5	21.9	18.5	29.3	28.7	33.2
Shigellosis	Cases	0	2	5	5	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0
	Rate	2.9	6.3	6.5	9	3	1.9	4	8.4	0	2.5	1.6	1.1	2.7	3.9	0	1.4	0	1.7	0	2.8
Tuberculosis disease	Cases	0	5	7	5	1	0	0	0	2	1	0	1	0	1	0	2	1	3	0	1
	Rate	0.6	7.3	12.6	10.9	4	3.8	2.6	2.1	5.1	9.9	1.6	3.4	4.8	8.2	6.9	3.4	3.1	6.7	3.4	3.1
Typhoid fever	Cases	0	2	5	8	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	Rate	0	0.8	4.3	3.2	0.5	2.8	0.4	0	0	0.6	1.6	0.6	0.7	0.3	0	0	0	0.4	0	0.6
Viral Haemorrhagic Fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VTEC/STEC infection	Cases	14	10	3	6	7	0	4	0	1	1	1	0	0	3	0	2	0	5	0	14
	Rate	32.1	11.2	5.7	11.4	11.5	10.3	6.6	0	10.3	7.4	9.5	2.9	0.7	2.6	2.3	6.8	6.2	2.6	16.9	21.6
Yersiniosis	Cases	1	11	7	5	1	4	2	0	0	1	0	1	0	6	0	0	0	7	2	2
	Rate	18.1	18.3	18.5	11.4	16	30	30.4	20.9	9.4	14.3	3.2	8	24	28	13.8	6.1	24.6	30.6	32.1	16.9

[1] These data are provisional.

[2] Current rate is based on the cumulative total for the 12 months up to and including April 2017 expressed as cases per 100 000. This includes cases still under investigation.

[3] Further data are available from the local Medical Officer of Health.

[4] Rates are based on report date. This may not be a good indicator of newly incident cases as a high proportion of notifications have substantial reporting delays.

National Notifiable Disease Surveillance Data April 2017

Disease	Current Year - 2017[1]			Previous Year - 2016		
	April 2017 Cases	Cumulative total since 1 January	Current 12 Month Rate[2]	April 2016 Cases	Cumulative total since 1 January	Current 12 Month Rate[2]
Campylobacteriosis	372	1973	159.2	364	1956	137.1
Cryptosporidiosis	58	199	22.6	65	199	17.1
Dengue fever	8	37	3	8	85	2.9
Gastroenteritis[3]	25	115	9.8	43	168	11
Giardiasis	125	546	32.4	144	640	35.3
Haemophilus influenzae type b	0	0	0	0	1	0.1
Hepatitis A	2	21	1	1	9	0.8
Hepatitis B[4]	5	14	0.9	3	8	0.7
Hepatitis C[4]	3	10	0.6	3	15	0.8
Invasive pneumococcal disease	29	105	10.5	28	88	9.8
Legionellosis	11	98	5.1	23	107	6.6
Leptospirosis	14	49	2.4	8	20	1.2
Listeriosis	1	4	0.5	5	16	0.8
Malaria	2	14	0.6	1	11	0.8
Measles	1	11	2	14	20	0.6
Meningococcal disease	5	18	1.7	2	12	1.5
Mumps	30	87	2.2	1	2	0.3
Paratyphoid fever	0	10	0.6	5	16	0.7
Pertussis	73	390	23.8	77	365	27.3
Rheumatic fever[5]	9	49	3.1	14	42	2.7
Rickettsial disease	0	1	0.1	0	2	0.2
Rubella	0	0	0	0	2	0
Salmonellosis	109	428	22.7	107	454	23
Shigellosis	15	71	4.1	11	52	2.4
Tuberculosis disease	30	112	6.6	26	98	6.3
Typhoid fever	19	42	1.3	5	21	1.1
VTEC/STEC infection	71	233	9.2	53	218	9.4
Yersiniosis	50	267	19.2	77	224	15.1

[1] These data are provisional.

[2] Rate is based on the cumulative total for the current year (12 months up to and including April 2017) or the previous year (12 months up to and including April 2016), expressed as cases per 100 000. This includes cases still under investigation.

[3] Cases of gastroenteritis from a common source or foodborne intoxication.

[4] Only acute cases of this disease are currently notifiable.

[5] Numbers are based on report date. This may not be a good indicator of newly incident cases as a high proportion of notifications have substantial reporting delays.

Other notifiable infectious disease reported in April: Ross River virus infection (1) , Zika virus (2)

EpiSurv data as at 8/05/2017

National Notifiable Disease Surveillance Data - Monthly totals for April 2017 and preceding 11 Months[1]

Disease	Apr 2017	Mar 2017	Feb 2017	Jan 2017	Dec 2016	Nov 2016	Oct 2016	Sep 2016	Aug 2016	Jul 2016
Campylobacteriosis	372	428	527	646	795	1103	855	572	1108	342
Cryptosporidiosis	58	49	43	49	48	95	202	213	129	51
Dengue fever	8	8	12	9	6	13	10	12	11	14
Gastroenteritis[2]	25	32	30	28	26	38	33	53	62	53
Giardiasis	125	162	145	114	101	130	142	128	129	96
Haemophilus influenzae type b	0	0	0	0	0	0	0	0	1	0
Hepatitis A	2	2	10	7	4	3	2	3	1	5
Hepatitis B[3]	5	1	5	3	4	5	3	4	1	5
Hepatitis C[3]	3	2	3	2	3	3	1	2	3	2
Invasive pneumococcal disease	29	19	22	35	34	41	42	69	50	60
Legionellosis	11	23	27	37	21	31	14	22	12	7
Leptospirosis	14	14	10	11	7	12	6	7	9	11
Listeriosis	1	2	0	1	3	4	2	1	3	1
Malaria	2	5	2	5	1	0	2	0	3	2
Measles	1	2	7	1	0	0	1	1	3	5
Meningococcal disease	5	7	1	5	4	12	6	7	12	10
Mumps	30	26	20	11	8	1	5	3	1	0
Paratyphoid fever	0	4	6	0	1	1	4	1	4	1
Pertussis	73	110	114	93	121	107	101	111	83	64
Rheumatic fever[4]	9	18	12	10	3	4	9	15	16	11
Rickettsial disease	0	0	1	0	0	0	1	0	0	0
Rubella	0	0	0	0	0	0	0	0	0	0
Salmonellosis	109	114	95	110	71	80	91	92	99	57
Shigellosis	15	19	15	22	21	18	15	17	21	8
Tuberculosis disease	30	27	20	35	32	33	25	22	12	20
Typhoid fever	19	15	3	5	1	3	3	1	2	1
VTEC/STEC infection	71	87	50	25	17	32	38	22	23	19
Yersiniosis	50	82	67	68	69	113	110	81	79	60

[1] These data are provisional.

[2] Cases of gastroenteritis from a common source or foodborne intoxication.

[3] Only acute cases of this disease are currently notifiable.

[4] Numbers are based on report date. This may not be a good indicator of newly incident cases as a high proportion of not substantial reporting delays.

Jun 2016	May 2016
334	391
48	77
21	19
43	36
121	129
0	0
1	7
1	3
0	2
48	45
15	18
6	7
3	3
3	4
32	41
4	8
0	0
3	1
72	70
15	22
1	1
0	1
66	81
12	10
27	28
4	2
15	34
54	68

ifications have